

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: **John R. Hurst et al.**

Serial No.: **Not yet assigned**

Group Art Unit: **1631**

Filed: **Concurrently herewith**

Examiner: **Marianne P. Allen**

Title: **SYSTEM AND METHOD FOR DATABASE SIMILARITY JOIN**

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DATE OF DEPOSIT: January 20, 2004

Mail Stop: Patent Application
Commissioner for Patents
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INFORMATION DISCLOSURE STATEMENT

S I R :

Pursuant to 37 C.F.R. §§ 1.97 and 1.98 and to the duty of disclosure set forth in 37 C.F.R. § 1.56, the Examiner in charge of the above-identified application is requested to consider and make of record the references listed on the attached PTO/SB/08A, PTO-1449 and PTO-892 forms submitted herewith.

Although the information submitted herewith may be "material" to the Examiner's consideration of the subject application, this submission is not intended to constitute an admission that such information is "prior art" as to the claimed invention.

Copies of the references cited on the attached PTO/SB/08a and PTO/SB/08b forms can be found in the parent case, U.S. Serial No. 09/301,811, filed April 28, 1999.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

No first Official Action has yet been received and it is presumed that none has yet been mailed. No fee or certification is required. 37 C.F.R. § 1.97(b).

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Michael A. Patané", is written over a horizontal line.

Michael A. Patané

Regis. No. 42,982

Enclosures:

PTO/SB/08a (1 sheet)

PTO/SB/08b (1 sheet)

Dated: January 20, 2004

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Substitute for form 1449A/PTO

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STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	not yet assigned
Filing Date	concurrently herewith
First Named Inventor	John R. Hurst et al.
Art Unit	1631
Examiner Name	Marianne P. Allen
Attorney Docket Number	AREN10.US2.CON

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US-5,983,220	11-1999	Schmitt	
		US- 6,240,374 B1	05-2001	Cramer et al.	
		US- 5,751,605	05-1998	Hurst et al.	
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FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
		WO98/20437	05-14-1998	Agrafiotis et al.		
		WO98/46998	10-22-1998	Clark		

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Sheet 2 of 2

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Group Art Unit	1631
Examiner Name	Marianne P. Allen
Attorney Docket Number	AREN10.US2.CON

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Kearsley et al., "Chemical Similarity Using Physicochemical Property Descriptors", J. Chem. Inf. Computer Sci. (1996) 36:118-127	
		Alexandrov et al., "Analysis of Topological and Nontopological Structural Similarities in the PDB; New Examples With Old Structures", Proteins Structure Function and Genetics (1996) 25:354-365	
		Wilson, E.K., "Computers Customize Combinatorial Libraries", Chem. Eng. News (April 27, 1998) pp. 31-37	
		Downs et al., "Evaluation of Similarity Searching Methods Using Activity and Toxicity Data", Chemical Structures 2, pp. 409-421 (1993)	
		Grethe et al., "Similarity Searching in the Development of New Bioactive Compounds, an Application", Chemical Structures 2, pp. 399-407 (1993)	
		Holliday et al., "A Fast Algorithm for the Selection of Sets of Dissimilar Structures from Large Chemical Databases", Krebs Institute for Biomedical Research and Department of Information Studies, University of Sheffield	
		Matter et al., "compound Libraries for Lead Discovery", Chemistry Today, pp. 9-15 (1996)	
		Patterson et al., "Neighborhood Behavior: A Useful Concept for Validation of 'Molecular Diversity' Descriptors", American Chemical Society, 39:3049-3059 (1996)	
		Winkler et al., "Holographic QSAR of Benzodiazepines", CSIRO Division of Molecular Science, Monash University, Department of Chemistry	

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